## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Currently Amended) High-pressure A high-pressure mercury vapor discharge lamp (1)—comprising a lamp vessel (2)—made of a transparent ceramic material, enclosing a discharge space (3) comprising an ionizable discharge medium and at least two electrodes (4,5), each provided with an having electrode tip (4a, 5a), which tips that are spaced apart at a mutual distance d, and electrical feed-through elements (6,7)—which extend from the at least two electrodes (4,5)—to the an exterior of the lamp, characterized in that wherein the distance d between the electrode tips (4a,5a)—is less than 1.0 mm and the a mercury density in the lamp vessel (2)—is higher than 0.3 mg/mm³.
  - 2. (Currently Amended) Lamp The lamp as claimed in claim 1,

characterized in that wherein the distance between the electrode tips (4a,5a) ranges from 0.3 to 0.8 mm.

- 3. (Currently Amended) Lamp The lamp as claimed in claim 1, characterized in that wherein the distance between the electrode tips (4a,5a) ranges from 0.3 to 0.6 mm.
- 4. (Currently Amended) Lamp The lamp as claimed in claim 1, characterized in that wherein the mercury density in the lamp vessel (2) ranges from 0.3 to 0.8 mg/mm<sup>3</sup>.
- 5. (Currently Amended) Lamp The lamp as claimed in claim 1, characterized in that wherein the mercury density in the lamp vessel (2) range from 0.4 to 0.7 mg/mm<sup>3</sup>.
- 6. (Currently Amended) Lamp The lamp as claimed in claim 1, characterized in that wherein the lamp vessel (2) comprises a bulging section (8) communicating with at least two feed-through channels (10,11) having an inner diameter smaller than the bulging section—(8).

- 7. (Currently Amended) Lamp The lamp as claimed in claim 6, characterized in that wherein the bulging section (8) is substantially cylindrical over the distance d and has an internal cross-sectional diameter Di ranging from 1.5 to 4.5 mm and a length L ranging from 4 to 8 mm.
- 8. (Currently Amended) Lamp The lamp as claimed in claim 6, characterized in that the wherein a wall load on the inside of the lamp vessel (2) during operation ranges from 40 to 150 W/cm<sup>2</sup>.
- 9. (Currently Amended) Lamp The lamp as claimed in claim 1, characterized in that wherein the ceramic material is chosen from the group consisting of sub-micro polycrystalline aluminum (PCA), yttrium aluminum garnet (YAG),  $Y_2O_3$ ,  $MgAl_2O_4$ , and aluminum nitride (AIN).
- 10. (Currently Amended) Lighting A lighting apparatus, comprising a main body and at least a the lamp as described in of claim 1.

- 11. (New) A high-pressure discharge lamp comprising:
- a discharge space including an ionizable discharge medium and at least two electrodes having electrode tips which are separated by distance d;
- a lamp vessel enclosing the discharge space; and feed-through elements which extend from the at least two electrodes to an exterior;

wherein the distance d between the electrode tips is less than  $1.0\ \mathrm{mm}$ .

- 12.(New) The high-pressure discharge lamp of claim 11, wherein the ionizable discharge medium includes mercury having a density higher than 0.3 mg/mm<sup>3</sup>.
- 13.(New) The high-pressure discharge lamp of claim 11, wherein the distance between the electrode tips ranges from 0.3 to 0.8 mm.
  - 14. (New) The high-pressure discharge lamp of claim 11,

wherein the distance between the electrode tips ranges from 0.3 to 0.6 mm.

- 15.(New) The high-pressure discharge lamp of claim 11, wherein the ionizable discharge medium includes mercury having a density from 0.3 to 0.8 mg/mm<sup>3</sup>.
- 16.(New) The high-pressure discharge lamp of claim 11, wherein the ionizable discharge medium includes mercury having a density from 0.4 to 0.7 mg/mm<sup>3</sup>.
- 17.(New) The high-pressure discharge lamp of claim 11, wherein the lamp vessel comprises a bulging section communicating with at least two feed-through channels having an inner diameter smaller than the bulging section.
- 18.(New) The high-pressure discharge lamp of claim 17, wherein the bulging section is substantially cylindrical over the distance d and has an internal cross-sectional diameter Di ranging from 1.5 to 4.5 mm and a length L ranging from 4 to 8 mm.

- 19.(New) The high-pressure discharge lamp of claim 11, wherein a wall load inside of the lamp vessel during operation ranges from 40 to 150  $\text{W/cm}^2$ .
- 20.(New) The high-pressure discharge lamp of claim 11, wherein the lamp vessel is made of a transparent ceramic material chosen from a group consisting of sub-micro polycrystalline aluminum (PCA), yttrium aluminum garnet (YAG),  $Y_2O_3$ ,  $MgAl_2O_4$ , and aluminum nitride (AIN).